



TOPODRONE
AFFORDABLE ACCURACY



TOPODRONE L450P+

- Aerial LiDAR for any drone and VTOL
- Built-in 24 Mp RGB camera for photogrammetry
- Changeable C-Mount 11, 16, 21 mm lens
- Changeable multispectral lens up to 5 bands
- Built-in IMU and GNSS modules
- Integration with DJI Matrice 350 RTK
- Dual-antenna mode support



The new TOPODRONE L450P+ laser scanner model allows to solve surveying tasks in various industries as a combined solution for airborne laser scanning, photogrammetry and multispectral mapping. The modern GNSS module with 1408 channels and dual antenna system provides unprecedented satellite signal quality. The latest IMU model allows to determine the sensor position angles in space with high accuracy, which significantly reduces the noise of the received dense point cloud. Easy data processing is provided by TOPODRONE Post Processing software for trajectory calculation, point cloud generation and data processing.



Specification

Common

Weight with lens 1025 g
Dimensions 90x130x120

LiDAR System

Sensor type Livox Avia
Sensor weight 653 g
Recording data to internal memory Yes
Recording data to a flash card Yes
Built-in IMU Yes
Built-in GNSS module Yes
Built-in cameras Yes
Dual antenna mode support Yes
LiDAR Accuracy 3-5 cm

Laser Sensor

Working Range 450 m
Working Flight Altitude 150 m
Horizontal FoV 70.4°
Vertical FoV 77.2°
Horizontal Resolution 0.03°
Vertical Resolution 0.28°
PPS 240000
PPS (Dual Return) 480000
PPS (Triple Return) 720000
Refresh Rate 5-20 Hz
Laser Wavelength 905nm Class 1 eye safe

IMU

IMU Weight 35 g
Operating frequency 200 Hz
Heading accuracy (°, 1σ) 0.07
Pitch accuracy (°, 1σ) 0.01
Roll accuracy (°, 1σ) 0.01

GNSS Receiver

PPK mode Yes
Number of channels 1408
Frequency 20 Hz
Data Accuracy 3-5 cm
GPS L1C/A, L2C, L1C, L2P (Y), L5
GLONASS L1, L2, L3
BeiDou B1I, B2I, B3I, B1C, B2a, B2b
Galileo E1, E5b, E5a, E6
SBAS L1C/A
QZSS L1, L2, L5
Working without GCPs Yes

Main camera

Camera resolution 24 Mp
Changeable lens Yes
Sensor size 23.5 x 15.6 mm
Image resolution, pixels 6000 x 4000
ISO range 100-32000
16, 24, 35, 50 mm lens support Yes
Mount type C-Mount



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